Pre and Post Test for Students

Thank you for participating with us in the Wheat CAP. To determine our effectiveness in training undergraduates we appreciate your willingness to take this test. You will be given this test at the beginning and end of your internships to determine our effectiveness in training. Please answer to the best of your ability from your own knowledge.

Give a short definition for the following terms:

Breeding

Molecular Marker

Genetic Map

Polymorphism

Polymerase Chain reaction

Compare and contrast the following terms:

Genotype and Phenotype

Dominant and recessive

Gene and allele
List three traits a wheat breeder might select in a population

There were no visible bands when the products of a PCR were loaded on a gel, although you could see your DNA marker. List five things that could have gone wrong?

PCR was performed on a group of F₂ progeny from a cross between Parent A and Parent B. From the diagram below please identify the genotype for each of the progeny.